

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1-28. (Canceled)

29. (Currently amended) A sensor boresight unit for transmitting radiation from an object to a radiation sensor, said sensor boresight unit comprising:

a housing, ~~which provides~~ having an internal channel that changes direction at a turn within said housing, said housing having and ~~further provides~~ a radiation entrance end and a radiation exit end ~~of said channel~~,

a lens, ~~which is~~ mounted in the internal channel at said radiation entrance end of said housing, ~~[[and]]~~

a mirror, ~~which is~~ mounted in ~~[[the]]~~ said housing at said turn of the internal channel for redirecting radiation along the change of direction of the internal channel, and

a holder for receiving a radiation source, said holder being associated with an outer part of the housing.

30. (Canceled)

31. (Previously presented) The sensor boresight unit according to claim 29, wherein said lens defines an image plane at said radiation exit end, and wherein said

housing defines a barrier in said channel to screen said image plane from said radiation entrance end.

32. (Original) The sensor boresight unit according to claim 31, wherein said housing defines at least one radiation trap in a channel-defining wall portion between said barrier and said radiation entrance end.

33. (Previously presented) The sensor boresight unit according to claim 29, wherein said housing defines an aperture stop in said channel.

34. (Withdrawn) An optical component for transmitting radiation from an object to a radiation sensor, said optical component including a solid body defining a radiation path within the body, said solid body comprising:

a radiation entrance surface for receiving radiation into said radiation path, said entrance surface including a lens element,

a radiation exit surface,

a tubular part for transmitting radiation in the radiation path along a longitudinal axis of the tubular part, and

a mirror surface at an end of the tubular part opposite the entrance surface, wherein a normal of the mirror surface is slanted to the longitudinal axis of the tubular part such that the radiation path is redirected in the mirror surface towards the radiation exit surface of the solid body.

35. (Withdrawn) The optical component according to claim 34, further comprising a holder for a radiation source for illuminating said object.

36. (Withdrawn) The optical component according to claim 34, wherein said lens element defines an image plane at said radiation exit end, and wherein said solid body defines a barrier in said tubular part to screen said image plane from said radiation entrance surface.

37. (Withdrawn) The optical component according to claim 34, further comprising an element for defining an aperture stop on said radiation entrance surface.

38. (Currently amended) A modular unit for an electronic pen having a writing implement, said modular unit comprising:

a carrier having ~~[[with]]~~ a receiver for receiving the writing implement,  
a printed circuit board,  
a two-dimensional radiation sensor mounted on the printed circuit board,

~~[[and]]~~

an imaging unit ~~which defines~~ designed to control a spatial origin of radiation reaching the radiation sensor, the imaging unit defining an image plane and an object plane, the imaging unit having a body and a holder that is associated with an outer part of the body, and

a radiation source for illuminating the object plane, the radiation source being held by the holder of the imaging unit,

wherein the carrier, the printed circuit board, and the imaging unit are joined together with the imaging unit facing the radiation sensor to locate the image plane at the radiation sensor.

39-41. (Canceled)

42. (Currently amended) The modular unit according to claim ~~[[40]]~~ 38, further comprising an electrical connection between the radiation source and the printed circuit board.

43. (Currently amended) The modular unit according to ~~claim 41 in combination with~~ claim 42, further comprising an electrical connection between the radiation source and the printed circuit board, wherein the electrical connection exerts a clamping force between the imaging unit and the printed circuit board.

44. (Previously presented) The modular unit according to claim 38, wherein the printed circuit board is supported by the carrier.

45. (Previously presented) The modular unit according to claim 38, wherein the printed circuit board is attached to the carrier.

46. (Previously presented) The modular unit according to claim 38, wherein the imaging unit is supported by the printed circuit board.

47. (Previously presented) The modular unit according to claim 38, wherein the imaging unit is attached to the printed circuit board.

48. (Previously presented) The modular unit according to claim 38, further comprising at least one connector for attaching at least part of an outer casing of said electronic pen.

49-50. (Canceled)

51. (New) The sensor boresight unit according to claim 29, wherein the holder is integrated with the outer part of the housing.

52. (New) The sensor boresight unit according to claim 29, wherein the holder is attached to the outer part of the housing.

53. (New) The modular unit according to claim 38, wherein the holder is integrated with the outer part of the body.

54. (New) The modular unit according to claim 38, wherein the holder is attached to the outer part of the body.